$50.00 Ck #0800 8-29-11 VRJ

For Ecology Use (Date Stamp)

RECEIVED

AUG 29 2011

DEPARTMENT OF ECOLOGY - CENTRAL REGIONAL OFFICE

DEPARTMENT OF ECOLOGY
State of Washington

Water Resources Program
Application for a Water Right Permit

☒ SURFACE WATER ☐ GROUND WATER ☐ PERMANENT

☒ TEMPORARY ☐ SHORT TERM ☐ DROUGHT

Follow the attached instructions. Attach additional sheets as necessary.

***A NON-REFUNDABLE MINIMUM FEE OF $50.00 MUST ACCOMPANY THIS APPLICATION.**

Section 1. APPLICANT CHIKAMIN

Applicant/Business Name: Terry L. Witchell (Pearmont Inc.)	Phone No: (509) 679-8840	Other No:
Address: 7950 Kinney Rd. (P. O. Box 237)		
City: Dryden	State: WA	Zip:98821
Email Address (optional): Potential lessee.		
Contact Name (if different from above): Cory Kamphaus	Phone No: (509)548-9413 Ext. 102	Other No:
Relationship to Applicant:		
Address: 7051 Hwy 97		
City: Peshastin	State: WA	Zip: 98847
Email Address (optional): cory@mid-columbia-coho.net		
Legal Land Owner or Part Owner Name of the Proposed Place of Use: Terry L. Witchell (Pearmont Inc.)	Phone No: (509) 679-8840	Other No:
Address: 7950 Kinney Rd. (P.O. Box 237)		
City: Dryden	State: WA	Zip:98821
Email Address (optional):		

Section 2. STATEMENT OF INTENT

Briefly describe the purpose of your proposed project: Coho acclimation from mid March to mid June.

Anticipated length of time to complete your project: By September of 2013

Water Use List all purposes for which water will be applied to a beneficial use and list quantity required for each.

Purpose(s) of Use	Rate (check one box only) ☒Cubic Feet per Second (CFS) ☐Gallons per Minute (GPM)	Acre-Feet per Year (AF/YR) (If known)	Period of Use (Continuously or Seasonal)
Fish acclimation	2.3	419.7	Seasonal
TOTAL:	2.3	419.7	

For Ecology Use	
	APPLICATION NO: S4-33033 SEPA: Exempt/Not Exempt
	Fee Paid: $50.- Check No: ECY Coding: 001-001-WR1-0285-000011
Date Returned	By Priority Date 8.29.11 By WRIA: Chelan 45

Short Term/Temporary Water Use

Is this a request for a short term project (less than four months and non-recurring)? ☐ YES ☒ NO

Is this request for a temporary permit? ☒YES ☐ NO

If yes to either question above, indicate the dates that the water will be needed:

FROM: 2013 TO: 2018

Section 3. POINT OF DIVERSION OR WITHDRAWAL

(Complete A or B, and C below)

A.) If Surface Water Source

☐ Spring ☒ Creek ☐ River ☐ Lake

☐ Other:_____

Source Name: Chikamin Creek

Tributary to: Chiwawa River

Number of proposed diversion points: 1

Do you have an existing diversion? ☐ YES ☒ NO

B.) If Ground Water Source

☐ Well(s) ☐ Other:_____

Well diameter & depth:_____

Number of proposed points of withdrawal:_____

Do you have an existing well? ☐ YES ☐ NO

If available, attach Water Well Report and pump test.

Well Tag ID No._____

C.) Point of Diversion/Withdrawal – Legal Description

Parcel No.	¼	¼	Section	Township	Range	County
281721000050		SW	21	28N	17E	Chelan

Lot(s)	Block(s)	Subdivision

If known, enter the distances in feet from the point of diversion or withdrawal to the nearest section corner:

_____ Feet (☐ North/☐ South) and _____feet (☐ East/☐ West)

from the (☐NW ☐SW ☐NE ☐SE ☐ ____) corner of Section_____.

Parcel No.	¼	¼	Section	Township	Range	County

Lot(s)	Block(s)	Subdivision

If known, enter the distances in feet from the point of diversion or withdrawal to the nearest section corner:

_____feet (☐ North/☐ South) and _____feet (☐ East/☐ West)

from the (☐NW ☐SW ☐NE ☐SE ☐____) corner of Section_____

NOTE: If more than two points of diversion/withdrawal attach additional information on a separate sheet of paper.

Do you own the land on which the proposed point of diversion/withdrawal is located? ☒ YES ☐ NO
If no, do you have legal authority to make this application for use of another's land? ☐ YES ☐ NO
Provide the owner name(s), address, and phone number: Terry L. Witchell (Pearmont Inc.)

7950 Kinney Rd. (P.O. Box 237)

Dryden, WA 98821 (509) 679-8840

Section 4. PLACE OF USE

Attach a copy of the legal description of the property (on which the water will be used) taken from a real estate contract, property deed or title insurance policy, or copy it carefully in the space below.

SWNE S1/2NW N1/2SW

¼	¼	Section	Twp.	Range	County	Parcel No.
	SW	21	28N	17E	Chelan	281721000050

Do you own all the lands on which the proposed place of use is located? ☒ YES ☐ NO.

For Ecology Use	APPLICATION NO:_____ SEPA: Exempt/Not Exempt Fee Paid:_____ Check No:_____ ECY Coding: 001-001-WR1-0285-000011
Date Returned	By Priority Date By WRIA:

If no, do you have legal authority to make this application for use of another's land? ☐ YES ☐ NO

Provide owner name(s), address, and phone number: Terry L. Witchell (Pearmont Inc.)
7950 Kinney Rd. (P. O. Box 237)
Dryden, WA 98821 (509) 679-8840

Are there any other water rights or claims associated with this property or water system? ☐ YES ☒ NO

If yes, provide the water right and/or claim numbers:_____

Attach a map of your project showing the point of diversion/withdrawal and place of use. If platted property, be sure to include a complete copy of the plat map.

Section 5. WATER SYSTEM DESCRIPTION

For Ecology Use	APPLICATION NO:_____ SEPA: Exempt/Not Exempt Fee Paid:_____ Check No:_____ ECY Coding: 001-001-WR1-0285-000011
Date Returned	By Priority Date By WRIA:

Describe your proposed water system (include type and size of devices used to divert or withdraw water from source): An intake structure is planned to be prefabricated and placed in the Chikamin Creek stream bank. It would conform to the existing bank profile and would not impede river flow or impact flood storage capacity. The intake uses a fixed, sloped screen with an air or water backwash system to flush debris off the screen and will meet agency (s) screen criteria for sweeping flow, approach velocity and mesh size. Pipe (120 ft.) would be buried from the intake to a pond constructed alongside Chikamin Creek. A 70 foot long discharge channel would return water from the pond to the creek. It would be rock lined to prevent erosion. (See attached Chikamin Creek water system impact evaluation)

Section 6. DOMESTIC WATER SUPPLY SYSTEM INFORMATION

(Complete A or B, and C below)

A.) Domestic Water Systems only	**B.) Municipal Water Systems only** *(defined under RCW 90.03.015)*
Projected number of connections to be served: _____	Present population to be served water: _____
Type of connections:_____ *(e.g., home, recreational cabin)*	Estimate future population to be served: _____ (20 year projection)

C.) Water System Planning

Do you have a Water System Plan approved by the Washington State Department of Health, Drinking Water Division? ☐ YES ☐ NO

If yes, date plan was approved _____/_____/_____ Water System Number:_____

Name of water system:_____

Are you within the service area of an existing water system? ☐ YES ☐ NO

If yes, explain why you are unable to connect to the system:_____

Section 7. IRRIGATION/STOCKWATER/OTHER FARM USES

Irrigation

Total number of acres requested to be irrigated under this application = _____ACRES
NOTE: Outline the area to be irrigated on your attached map.

Stockwater

List number and kind of stock:_____

Is the proposed project for a dairy farm? ☐ YES ☐ NO

Other Proposed Farm Uses

Describe all proposed uses: _____

Family Farm Water Act (RCW 90.66):

Calculate the acreage in which you have a controlling interest, including only:

- Acreage irrigated under water rights acquired after December 8, 1977,
- Acreage proposed to be irrigated under this application, and
- Acreage proposed to be irrigated under other pending application(s).

Is the combined acreage under existing rights greater than 6000 acres? ☐ YES ☐ NO

For Ecology Use	APPLICATION NO:_____ SEPA: Exempt/Not Exempt Fee Paid:_____ Check No:_____ ECY Coding: 001-001-WR1-0285-000011
Date Returned	By Priority Date By WRIA:

Do you have a controlling interest in a Family Farm Development Permit? ☐ YES ☐ NO

If yes, enter Permit No: _____

Section 8. OTHER WATER USES

Hydropower

Indicate total feet of head _____ and proposed capacity in kilowatts:_____

Describe works:_____

Indicate all uses to which power is to be applied:_____

FERC License No: _____

Mining/Industrial Use

Describe use, method of supplying and utilizing water:_____

Other Use

_____

Section 9. WATER STORAGE

Will you be using a dam, dike, or other structure to retain or store water? ☐ YES ☒ NO

Are you proposing to store more than 10 acre-feet of water? ☐ YES ☒ NO

Will the water depth be 10 feet or more? ☐ YES ☒ NO

If you answered yes to any of the above questions, please describe:_____

_____

_____

NOTE: If you will be storing 10 acre-feet or more of water and/or if the water depth will be 10 feet or more at the deepest point and some portion of the storage will be above grade, you must also complete an Application for Permit to Construct a Reservoir and a Dam Construction Permit and Application.

Section 10. DRIVING DIRECTIONS

Provide detailed driving directions to the project site: From Leavenworth travel west on Hwy 2 for 15.1 miles and turn left onto Hwy 207. Follow 207 for 4.4 miles and turn right onto Wye Con road. Go to next stop sign (0.4 miles) and turn right onto Co. Hwy 22 (Chiwawa Loop Rd.). At approximately 0.8 miles, take left onto Chiwawa River Rd. After passing Fish Lake Rd. on your left, travel approximately 9.2 miles to the lower Chikamin Creek bridge. Site is on the east side of the road.

Site Address: See driving directions

For Ecology Use	APPLICATION NO:_____ SEPA: Exempt/Not Exempt Fee Paid:_____ Check No:_____ ECY Coding: 001-001-WR1-0285-000011
Date Returned	By Priority Date By WRIA:

Section 11. REQUIRED SIGNATURES

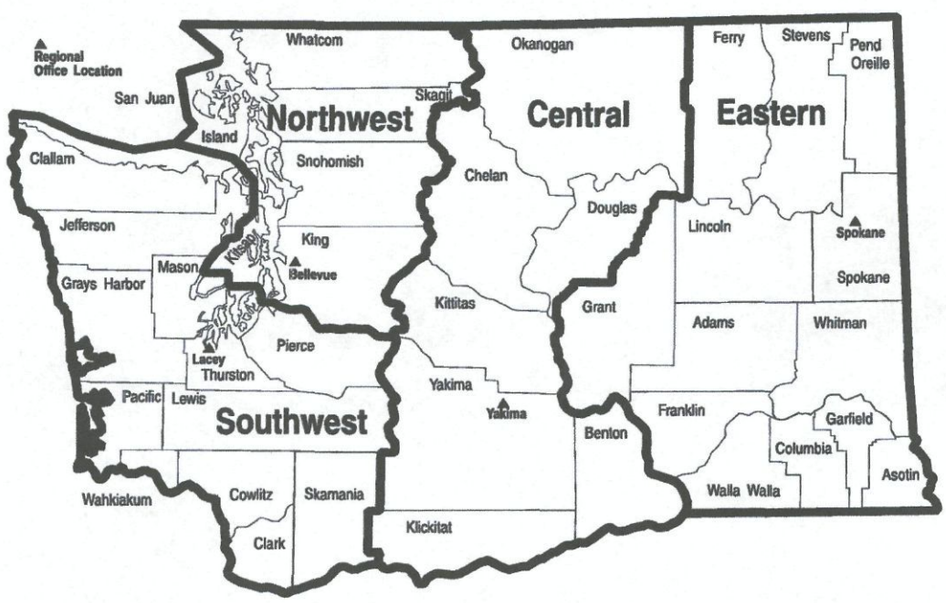
I certify that the information provided in this application is true and accurate to the best of my knowledge. I understand that in order to process my application, I grant staff from the Department of Ecology access to the site for inspection and monitoring purposes. Even though the employees of the Department of Ecology may have assisted me in the preparation of the above application, all responsibility for the accuracy of the information rests with me, the applicant.

Print Name (Applicant or authorized representative)	Signature	Date
Cory Kamphaus		8/18/11
Print Name (Legal Owner or Part Owner Place of Use)	Signature	Date
Terry Twitchell PEARMONT INC.		8-4-11
Print Name (Legal Owner or Part Owner Place of Use)	Signature	Date
Print Name (Legal Owner or Part Owner Place of Use)	Signature	Date

Please check the region in which the project is located:

***Submit your application to:**	☒ Central Regional Office 15 W Yakima Avenue, Suite 200 Yakima, WA 98902 (509) 575-2490	☐ Eastern Regional Office 4601 N. Monroe Spokane, WA 99205-1295 (509) 329-3400
DEPARTMENT OF ECOLOGY CASHIERING SECTION PO BOX 47611 OLYMPIA, WA 98504-7611	☐ Northwest Regional Office 3190 – 160th Avenue SE Bellevue, WA 98008-5452 (425) 649-7000	☐ Southwest Regional Office PO Box 47775 Olympia, WA 98504-7775 (360) 407-6300

If you have questions about your application, contact the Water Resources program at the regional office in which your project is located.



For Ecology Use	APPLICATION NO:_____ SEPA: Exempt/Not Exempt Fee Paid:_____ Check No:_____ ECY Coding: 001-001-WR1-0285-000011
Date Returned	By Priority Date By WRIA:

CHIKAMIN SURFACE WATER WITHDRAWAL IMPACT ANALYSIS

Analysis from:
Mid-Columbia Coho Restoration Project, Draft EIS, Appendix 10. Effect of Surface Water Withdrawals on Listed Fish
Report Prepared by:
Randolph Ericksen, Clark Watry, Ian Courter, Jay Vaughan and Shadia Duery
Cramer Fish Sciences
600 NW Fariss Road
Gresham, Oregon 97030
November 2010

Chikamin Creek is a tributary of the Chiwawa River which accounts for 44% of the Chinook, 12% of the steelhead, and 78% of the bull trout spawning redds counted in the Wenatchee Subbasin (see Appendix 9 of the EIS for more information). Chinook spawning has not been documented in Chikamin Creek although summer steelhead and bull trout have been documented spawning in the stream. Chikamin Creek on average represents 3% of the subyearling Chinook, 8% of the subyearling and 5% of the yearling rainbow/steelhead abundance estimated in the Chiwawa drainage. Chikamin Creek also represented 13% of the juvenile bull trout abundance in the Chiwawa drainage in 2007, but the survey does not include many upper tributaries where bull trout likely reside (Hillman et al. 2008). A new pond is proposed to be constructed next to Chikamin Creek and would be fed with surface water from the creek. The affected reach would include Chikamin Creek from the intake downstream about 450 feet of channel to the discharge pipe (**Figure 1**).

Model inputs for the Chikamin analysis (**Table 1**) were based on onsite topographic survey and data from a stream gage located immediately downstream of the site. Topographic data from the affected reach of the creek (**Figure 1**) was collected during the fall of 2009. A second survey was conducted on April 27, 2010 to gather additional flow and channel data.

Table 1. Topographic survey dates and model inputs used in the River2D model to evaluate surface water withdrawal impacts to listed fish.

	Chikamin	Napeequa
Channel topography survey dates	Oct. 19-20, 2009	Oct. 5 - Nov. 5, 2009
Date water edge surveyed	Oct. 19, 2009	Oct. 7, 2009
Flow during water edge survey	13.7	34.4
Date second survey	Apr. 27, 2010	Apr. 26-27, 2010
Flow during second survey	81.6	242
Minimum withdrawal (cfs)	1.5	1.7
Maximum withdrawal (cfs)	2.3	2.6
Withdrawal period	Mid March to early May	Mid-March to early May
Mean flow range (cfs)	20-68	109-372
Extreme low flow (cfs)	8.5	47

Surface water is proposed to be withdrawn from Chikamin Creek from mid March through early May to provide water to the acclimation pond. A minimum flow of 1.5 cfs is required for coho acclimation at this site (Appendix 2 of the EIS) and assumed withdrawals 50% greater (2.3 cfs) for modeling purposes. Juvenile Chinook salmon, and adult and juvenile steelhead and juvenile and adult bull trout are expected to be present in Chikamin Creek during this time (Appendix 9 of the EIS). Daily flows typically start to increase around mid March and peak between mid May and early June (**Figure 2**). Mean flows during the acclimation period ranged between 20 and 68 cfs between 2000 and 2008, with the 10^{th} percentile flows as low as 8.5 cfs and 90^{th} percentile as high as 105 cfs.

The model results indicated that the amount of habitat in the affected reach of Chikamin Creek would generally increase with flow during the spring acclimation period (**Figure 3**). However, the amount of WUA of habitat for all species was very small (0.1% or less) compared to the wetted channel area (**Table 2**). This is due primarily to a lack of finer substrate (gravel and small cobbles) in this reach. As a result, the model did not predict any WUA for steelhead spawning in the affected reach at any flow levels (**Table 2**). Because WUA generally increased with flow, the modeled water withdrawal of 2.3 cfs tended to reduce the WUA of habitat for all species. The reduction due to the withdrawal was less than one square foot of habitat for all species. Thus, the

maximum amount of water proposed for withdrawal would result in a very small reduction in WUA for all species.

For Ecology Use	APPLICATION NO:_____ SEPA: Exempt/Not Exempt Fee Paid:_____ Check No:_____ ECY Coding: 001-001-WR1-0285-000011
Date Returned By	Priority Date By WRIA: